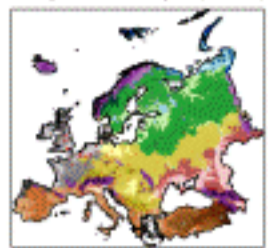


European landscapes

A physiographic approximation

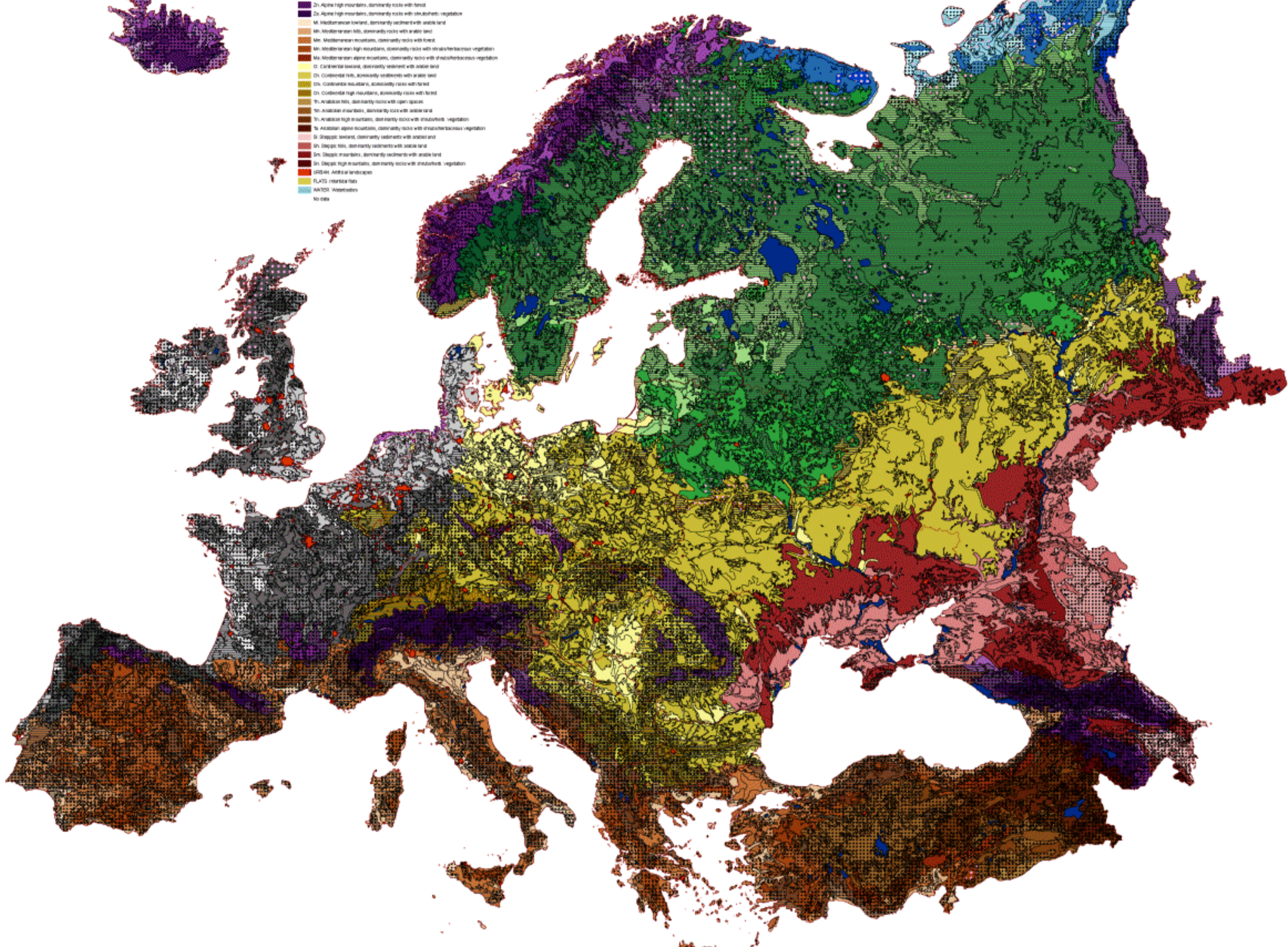
European landscapes (level 2)



Legend level 2

- K Arctic lowland, dominantly rock with shrubs/herbaceous vegetation
- B Arctic lowland, dominantly rock with open spaces
- A Atlantic lowland, dominantly rock with forest
- Z Alpine lowland, dominantly rock with forest
- M Mediterranean lowland, dominantly rock with shrubs/herbaceous vegetation
- C Continental lowland, dominantly rock with arable land
- T Anatolian lowland, dominantly rock with open spaces
- S Steppic lowland, dominantly rock with forest
- U Urban, built-up areas
- F FLATS, intertidal flats
- W WABOD, waterbodies
- No data

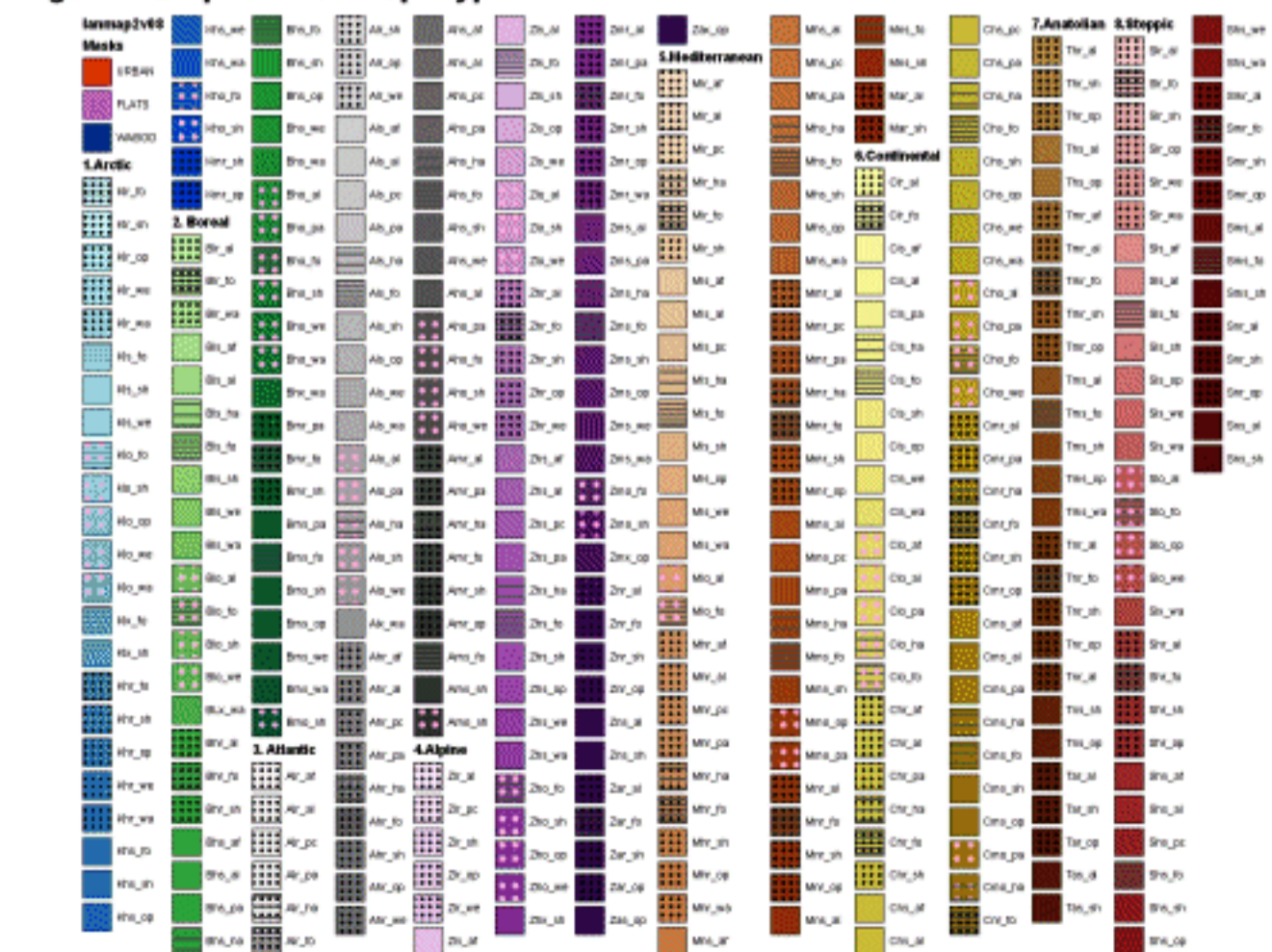
LANMAP2



1:13,641,181

C.A.Mucher, J.Klijn, A.Koomen and D.Wascher, November 2004

Legend European landscape types



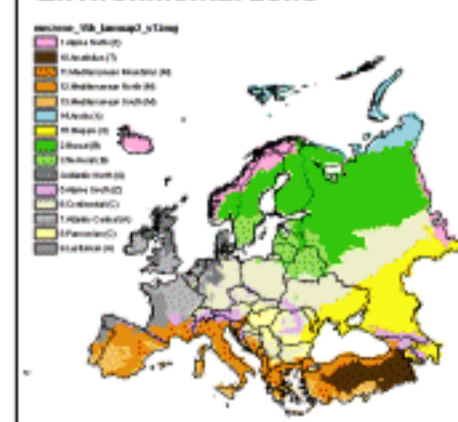
Description major European landscape types (second level)

A1 Atlantic lowlands, dominantly sediments with arable land	M1 Mediterranean lowlands, dominantly rock with forest
A2 Atlantic hills, dominantly rock with arable land and pastures	M2 Mediterranean high mountains, dominantly rock with shrubs/herbaceous vegetation
A3 Atlantic mountains, dominantly rock with shrubs/herbaceous vegetation	M3 Mediterranean alpine mountains, dominantly rock with shrubs/herbaceous vegetation
B1 Boreal lowlands, dominantly sediment with forest	S1 Steppic lowlands, dominantly sediments with arable land
B2 Boreal hills, dominantly sediment with forest	S2 Steppic hills, dominantly sediments with arable land
B3 Boreal mountains, dominantly sediment with shrubs/herbaceous vegetation	S3 Steppic high mountains, dominantly rock with shrubs/herbaceous vegetation
C1 Continental lowlands, dominantly sediment with arable land	T1 Anatolian lowlands, dominantly rock with open spaces
C2 Continental hills, dominantly sediment with arable land	T2 Anatolian hills, dominantly rock with arable land
C3 Continental mountains, dominantly rock with forest	T3 Anatolian high mountains, dominantly rock with shrubs/herbaceous vegetation
Ch Continental high mountains, dominantly rock with forest	Tr Anatolian alpine mountains, dominantly rock with shrubs/herbaceous vegetation
K1 Arctic lowlands, dominantly rock with shrubs/herbaceous vegetation	Z1 Alpine lowlands, dominantly sediment with forest
K2 Arctic mountains, dominantly rock with open spaces	Z2 Alpine hills, dominantly sediment with forest
M1 Mediterranean lowlands, dominantly sediment with arable land	Z3 Alpine mountains, dominantly rock with forest
M2 Mediterranean hills, dominantly rock with arable land	Z4 Alpine high mountains, dominantly rock with forest
M3 Mediterranean high mountains, dominantly rock with shrubs/herbaceous vegetation and open spaces	

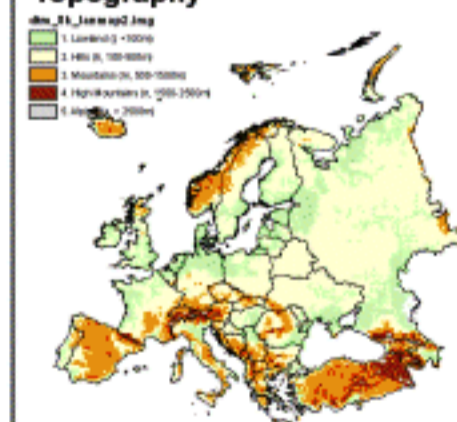
Explanation Legend

- Environmental zone**
 - K Arctic
 - B Boreal
 - A Atlantic
 - Z Alpine
 - M Mediterranean
 - C Continental
 - T Anatolian
 - S Steppic
 - Topography**
 - l Lowlands
 - h Hills
 - m Mountains
 - n High Mountains
 - a Alpine
 - Parent material**
 - r Rocks
 - s Sediments
 - o Organic material
 - x unclassified
 - Land use**
 - af Artificial surfaces
 - al Arable land
 - pc Permanent crops
 - pa Pastures
 - ha Heterogeneous agricultural areas
 - fo Forests
 - sh Shrubs and herbaceous (semi-) natural vegetation
 - op Open spaces with little or no vegetation
 - we Wetlands
 - wa Waterbodies
- Masks**
- URBAN, built-up areas
 - FLATS, intertidal flats
 - WABOD, waterbodies
- Example**
- Atlantic lowlands, dominantly organic soils with pastures
Alo pa

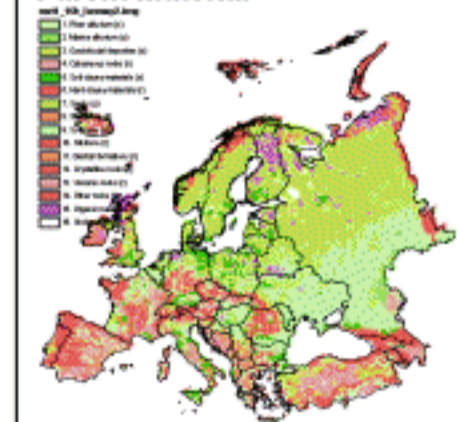
Environmental zone



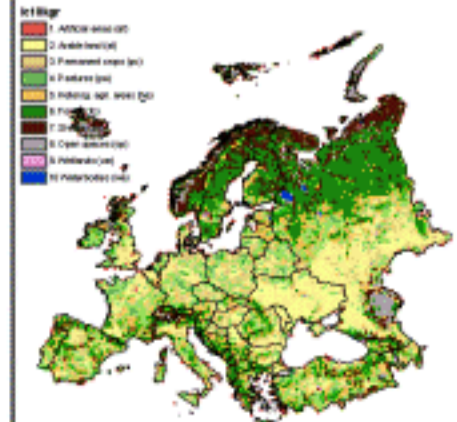
Topography



Parent material



Land use



Background information

The European Landscape Classification (LANMAP2) is fully based upon a hierarchy in parameters of various components and within that scheme we made a choice of key parameters that are considered most important and readily available, i.e. four important parameters: climate, topography, parent material and land use. The next question was how to combine the geographical information layers into one overarching landscape concept following a systematic and reproducible procedure. For that purpose we made use of a new software package, called eCognition. Three core information layers (topography, parent material and land use) were stacked into one RGB colour composite which created the appearance of a 1km resolution satellite image. This image was segmented in eCognition on a first level using topography and parent material only, which was considered to be a good matrix. On a second level the (landscape) segments were further subdivided on the basis of land use. Per mapping unit the dominant environmental zone, topographic, parent material and land use class has been calculated and has been attached as an attribute to the database. On basis of these attributes the landscape typology has been constructed (see left box). This resulted finally in more than 350 landscape types.

Contact: Sander Mucher, Alterra, PO Box 47, 6700 AA Wageningen, the Netherlands
Email: sander.mucher@wur.nl